

## United States Patent [19]

Sartori et al.

[11] 4,217,237

[45] Aug. 12, 1980

- [54] **PROCESS FOR REMOVING CARBON DIOXIDE CONTAINING ACIDIC GASES FROM GASEOUS MIXTURES USING A BASIC SALT ACTIVATED WITH A HINDERED AMINE**

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[73] Assignee: Exxon Research & Engineering Co., Florham Park, N.J.

[21] Appl. No.: 910,861

[22] Filed: May 30, 1978

## Related U.S. Application Data

- [60] Division of Ser. No. 862,196, Dec. 19, 1977, Pat. No. 4,112,050, and a continuation-in-part of Ser. No. 590,427, Jun. 26, 1975, abandoned.

[51] Int. Cl.<sup>2</sup> ..... C09K 3/00

[52] U.S. Cl. .... 252/192; 252/189; 252/190; 423/228; 423/232; 423/234; 423/243

[58] Field of Search ..... 252/189, 192, 190; 423/220, 223, 226-229, 232, 233, 236, 243; 260/564 R

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Attorney, Agent, or Firm—Albert P. Halluin

## [57] ABSTRACT

Carbon dioxide containing acidic gases are removed from a normally gaseous mixture by a process comprising contacting the normally gaseous mixture with an aqueous solution comprising (a) a basic alkali metal salt or hydroxide and (b) an activator for said basic salt or alkali metal salt or hydroxide comprising at least one sterically hindered amine.

12 Claims, 4 Drawing Figures

Title: **JP61071819A2: SANSEIGASUSUKURATSUBINGUYOSOISEIBUTSU**

Country: **JP** Japan

Kind: **A2** (See also: [JP01034092B4](#))

Inventor: **GUIDO SARUTORI;  
FUREDERITSUKU REDAA;**

Assignee: **EXXON RESEARCH ENGINEERING CO**  
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Core: more...

IPC-7: [B01D 53/14](#); [B01D 53/34](#);

ECLA Code: None

Priority Number: **1975-06-26 US1975000590427**

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Other Abstract  
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